



PATENT
Attorney Docket No. INL-059

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Shin et al.
SERIAL NO.: 10/625,984 GROUP NO.: Not yet assigned.
FILING DATE: July 24, 2003 EXAMINER: Not yet assigned.
TITLE: AQUEOUS SOLUTIONS FOR REDUCING THE RATE OF OXYGEN LOSS, AND METHODS THEREOF

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 28th day of October, 2003.

Olivia J. Mannion
Olivia J. Mannion

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are: Transmittal Form (1 page); Information Disclosure Statement (2 pages); Form PTO-1449 (2 pages); References Labeled A1 to A7, B1 and C1 to C14; and a return receipt postcard.

**TRANSMITTAL
FORM**

OCT 3 1 2003
U.S. PATENT & TRADEMARK OFFICE
RECEIVED

| | | |
|--|---------------------------|------------------|
|  | Application Serial Number | 10/625,984 |
| | Filing Date | July 24, 2003 |
| | First Named Inventor | Shin |
| | Group Art Unit | Not yet assigned |
| | Examiner Name | Not yet assigned |
| | Attorney Docket No. | INL-059 |
| | Patent No. | Not applicable |
| | Issue Date | Not applicable |

ENCLOSURES (check all that apply)

| | | |
|---|--|--|
| <input type="checkbox"/> Fee Transmittal Form <ul style="list-style-type: none"> <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form | <input type="checkbox"/> Copy of Notice to File Missing Parts of Application | <input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences |
| <input type="checkbox"/> Amendment/Response <ul style="list-style-type: none"> <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] | <input type="checkbox"/> Formal Drawing(s) | <input type="checkbox"/> Appeal Brief (in triplicate) |
| <input type="checkbox"/> Petition for Extension of Time | <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal | <input type="checkbox"/> Status Inquiry |
| <input checked="" type="checkbox"/> Information Disclosure Statement <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations | <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) | <input checked="" type="checkbox"/> Return Receipt Postcard |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> Terminal Disclaimer | <input type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 |
| <input type="checkbox"/> Sequence Listing submission <ul style="list-style-type: none"> <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above | <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application | <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 |
| | <input type="checkbox"/> Small Entity Statement | <input type="checkbox"/> Additional Enclosure(s) (please identify below) |
| | <input type="checkbox"/> CD(s) for large table or computer program | |
| | <input type="checkbox"/> Amendment After Allowance | |
| | <input type="checkbox"/> Request for Certificate of Correction <ul style="list-style-type: none"> <input type="checkbox"/> Certificate of Correction (in duplicate) | |

CORRESPONDENCE ADDRESS

Direct all correspondence to: Patent Administrator
 Testa, Hurwitz & Thibeault, LLP
 High Street Tower
 125 High Street
 Boston, MA 02110
 Tel. No.: (617) 248-7000
 Fax No.: (617) 248-7100

SIGNATURE BLOCK

Respectfully submitted,


 Natasha C. Us
 Attorney for the Applicants
 Testa, Hurwitz & Thibeault, LLP
 High Street Tower
 125 High Street
 Boston, MA 02110



PATENT
Attorney Docket No. INL-059

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Shin et al.
SERIAL NO.: 10/625,984 GROUP NO.: Not yet assigned
FILING DATE: July 24, 2003 EXAMINER: Not yet assigned
TITLE: AQUEOUS SOLUTIONS FOR REDUCING THE RATE OF OXYGEN LOSS, AND METHODS THEREOF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
 - the requisite Statement is below, **OR**
 - the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

Information Disclosure Statement

Serial No. 10/625,984

Page 2 of 2

- (3) after the mailing date of a **final action or notice of allowance** but before the payment of the **issue fee**, AND
- the requisite Statement is below, AND
- the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Applicants wish to inform the Examiner about the following co-pending patent applications:

- 1) U.S. Serial No. 09/872,240, filed on 05/31/2001, by Pamidi et al.; and
- 2) U.S. Serial No. 09/872,247, filed on 05/31/2001, by Mansouri et al.

Respectfully submitted,



Natasha C. Us
Attorney for the Applicants
Testa, Hurwitz, & Thibeault, LLP
High Street Tower
125 High Street
Boston, Massachusetts 02110

Date: October 28, 2003
Reg. No. 44,381

Tel. No.: (617) 310-8327
Fax No.: (617) 248-7100

2701260-1



| | | |
|---|--|----------------------------|
| FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT | | ATTY DOCKET NO.: INL-059 |
| | | APPLICANTS: Shin et al. |
| | | SERIAL NO.: 10/625,984 |
| | | FILING DATE: July 24, 2003 |
| | | GROUP: Not yet assigned |

U.S. PATENT DOCUMENTS

| EXAM. INIT. | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|----------------|----|--------------------|------------|--------------------|-------|--------------|-------------------------------|
| | A1 | 4,734,184 | 10/26/1993 | Hurley et al. | | | |
| | A2 | 5,256,571 | 10/26/1993 | Hurley et al. | | | |
| | A3 | 5,705,482 | 01/06/1998 | Christensen et al. | | | |
| | A4 | 6,143,545 | 11/07/2000 | Clausen et al. | | | |
| | A5 | 6,200,947 | 03/13/2001 | Takashima et al. | | | |
| | A6 | 6,482,416 | 11/19/2002 | Munn et al. | | | |
| | A7 | 2003/0000833 | 01/02/2003 | Mansouri et al. | | | |

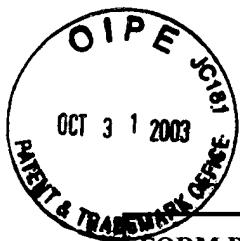
FOREIGN PATENT DOCUMENTS

| EXAM. INIT. | | DOCUMENT NUMBER | DATE | COUNTRY CODE | CLASS | SUB CLASS | FILING DATE | ABSTRACT ONLY | ENGLISH LANG (Y/N) |
|----------------|----|--------------------|------------|-----------------|-------|--------------|----------------|------------------|-----------------------|
| | B1 | 649,396 | 02/28/1979 | RU | | | | NO | NO |
| | | | | | | | | | |

OTHER ART, JOURNAL ARTICLES, ETC.

| EXAM. INIT. | OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) | |
|----------------|--|--|
| | C1 | Dehlawi et al.: Choline Derivatives and Sodium Fluoride Protect Acetylcholinesterase against Irreversible Inhibition and Aging by DFP and Paraoxon, <i>Journal of Biochemical Toxicology</i> , Vol. 9, No. 5, pp. 261-268 (1994) |
| | C2 | Ghoshal et al.: Prevention by Free Radical Scavenger AD ₅ of Prooxidant Effects of Choline Deficiency, <i>Free Radical Biology & Medicine</i> , Vol. 8, pp. 3-7 (1990) |
| | C3 | Grattagliano et al.: Starvation Impairs Antioxidant Defense in Fatty Livers of Rats Fed A Choline-Deficient Diet ¹ , <i>The Journal of Nutrition</i> , Vol. 130, No. 9, pp. 2131-2136 |
| | C4 | Hiramatsu et al.: Free radicals, lipid peroxidation, SOD activity, neurotransmitters and choline acetyltransferase activity in the aged rat brain, <i>Free Radicals and Aging</i> , pp. 213-218 |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
| | |



| FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT | | ATTY DOCKET NO.: INL-059 APPLICANTS: Shin et al. SERIAL NO.: 10/625,984 FILING DATE: July 24, 2003 GROUP: Not yet assigned |
|---|---|--|
| OTHER ART, JOURNAL ARTICLES, ETC. | | |
| EXAM. INIT. | OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) | |
| | C5 | Huntsman et al.: Nucleus-Specific Differences in GABA _A -Receptor-Mediated Inhibition Are Enhanced During Thalamic Development, <i>The American Physiological Society</i> 2000 |
| | C6 | Jürgens et al.: Delay of copper-catalyzed oxidation of low density lipoprotein by in vitro enrichment with choline or ethanolamine plasmalogens, <i>Chemistry and Physics of Lipids</i> , Vol. 77, No. 1, pp. 25-31 (1995) |
| | C7 | Lippman: The Prolongation of Life: A Comparison of Antioxidants and Geroprotectors Versus Superoxide in Human Mitochondria, <i>Journal of Gerontology</i> , Vol. 36, No. 5, pp. 550-557 (1981) |
| | C8 | Meyer et al.: Effects of Peroxidation and Aging on Rat Neocortical ACh-Release and Protein Kinase C, <i>Neurobiology of Aging</i> , Vol. 15, No. 1, pp. 63-67 (1994) |
| | C9 | Saito et al.: Antioxidant Activity and Active Sites of Phospholipids and Antioxidants, <i>Journal of the American Oil Chemists' Society</i> , Vol. 74, No. 12, pp. 1531-1536 (1997) |
| | C10 | Williams et al.: Cerebral Microvessel Phospholipase A ₂ Activity in Senescent Mouse, <i>Neurochemical Research</i> , Vol. 19, No. 3, pp. 317-320 (1994) |
| | C11 | Wilson et al.: Vascular Damage and Lipid Peroxidation in Choline-deficient Rats, <i>Experimental and Molecular Pathology</i> , Vol. 18, No. 3, June 1973 |
| | C12 | Wu et al.: Alzheimer's Amyloid-Beta Peptide Inhibits Sodium/Calcium Exchange Measured In Rat and Human Brain Plasma Membrane Vesicles, <i>Neuroscience</i> , Vol. 80, No. 3, pp. 675-684 (1997) |
| | C13 | Kruk: The use of biologically active substances in the freezing of boar semen, <i>Zootehnika</i> , Vol. 10, pp. 28-30 (1996) (English abstract attached.) |
| | C14 | Storozhok et al.: Synergic Effects in the Combined Antioxidant Action of Phosphatidyl Choline with Native and Artificial Quinones, <i>VOPR. MED. KHIM</i> , Vol. 40, Issue 1 pp. 10-14 (1994) |
| EXAMINER | | DATE CONSIDERED |

2306024_1